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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/079,286	10/079,286 02/20/2002		Peter R. Jepson	06160-1P67	6625	
157	7590	05/26/2005		EXAMINER		
		L SCIENCE LLC	ZHENG, LOIS L			
100 BAYER ROAD PITTSBURGH, PA 15205				ART UNIT	PAPER NUMBER	
FII 13BORGH, FA 13203				1742	1742	

DATE MAILED: 05/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		(
	Application No.	Applicant(s)					
Office Asking Commons	10/079,286	JEPSON ET AL.					
Office Action Summary	Examiner	Art Unit					
	Lois Zheng	1742					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 15 M	larch 2005.						
<u> </u>							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1,3 and 5 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,3 and 5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examine	er						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 15 March 2005 has been entered.

Status of Claims

Claims 2, 4, 6-25 are canceled in view of the amendment filed 15 March 2005.
 Claim 1 is amended in view of the amendment. Therefore, claims 1, 3 and 5 are currently pending.

Status of Previous Rejections

3. The declaration under 37 CFR 1.132 filed 15 March 2005 is sufficient to overcome the rejection of claims 1-5 under 35 U.S. C 102(e) based upon Turner US 6,331,233(Turner).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1, 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michaluk et al. US Patent Application Publication 2002/0072475 A1(Michaluk).

Michaluk teaches a niobium sputtering component (i.e. a plate having a thickness, a center and an edge), having a uniform texture (paragraph 0017), wherein the texture includes a mix of $\{100\}$ and $\{111\}$ crystal orientations (paragraph 0019). The niobium average grain size is preferably less than 50μ m (paragraph 0029) and niobium purity is at least 99.99% (paragraph 0027).

With respect to amended claim 1 of the instant invention, even though Michaluk does not explicitly teach the claimed metal plate being a tantalum plate, one of ordinary skill in the art would have found the claimed tantalum plate obvious since Michaluk teaches a niobium plate with the same purity and crystal structure as claimed and niobium and tantalum are both Group V metals having substantially similar properties.

In addition, since Michaluk teaches uniform texture in its sputtering component, the variations in distribution of {100} and {111} even though Michaluk does not explicitly teach the claimed {100} and {111} crystallographic orientation would be inherently very small, which would inherently read on the claimed less than 30% variation in both vertical and horizontal planes.

With respect to instant claims 3 and 5, Michaluk's teaching of grain size and tantalum purity encompass the claimed grain size of less than 40 μ m and the claimed tantalum purity of at least 99.999%. Therefore, a prima facie case of obviousness exists. See MPEP 2144.05. The selection of claimed tantalum grain size and purity ranges from the disclosed ranges of Michaluk would have been obvious to one skilled in

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the art since Michaluk teaches the same utilities in its' disclosed tantalum grain size and purity ranges.

Response to Arguments

6. Applicant's arguments with respect to claims 1-3 and 6-7 based on Michaluk have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lois Zheng whose telephone number is (571) 272-1248. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROY KING SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

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